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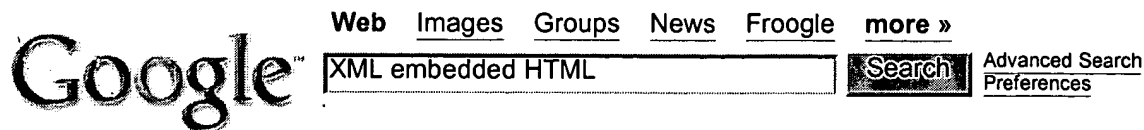
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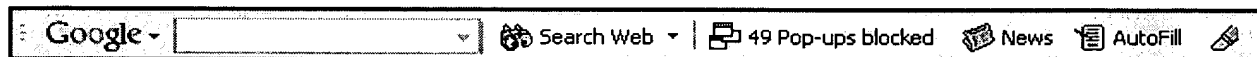
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1 [Declarative specification of data-intensive Web sites](#)

Mary Fernández, Dan Suciu, Igor Tatarinov

 December 1999 **ACM SIGPLAN Notices , Proceedings of the 2nd conference on Domain-specific languages**, Volume 35 Issue 1

Full text available: pdf(1.06 MB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Integrated information systems are often realized as data-intensive Web sites, which integrate data from multiple data sources. We present a system, called STRUDEL, for specifying and generating data-intensive Web sites. STRUDEL separates the tasks of accessing and integrating a site's data sources, building its structure, and generating its HTML representation. STRUDEL's declarative query language, called StruQL, supports the first two tasks. Unlike ad-hoc database queries ...

2 [UnQL: a query language and algebra for semistructured data based on structural recursion](#)

Peter Buneman, Mary Fernandez, Dan Suciu

 March 2000 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 9 Issue 1

Full text available: pdf(414.32 KB)

 Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

This paper presents structural recursion as the basis of the syntax and semantics of query languages for semistructured data and XML. We describe a simple and powerful query language based on pattern matching and show that it can be expressed using structural recursion, which is introduced as a top-down, recursive function, similar to the way XSL is defined on XML trees. On cyclic data, structural recursion can be defined in two equivalent ways: as a recursive function which evaluates the data t ...

Keywords: Optimization, Query language, Semistructured data, Structural recursion, XML, XSL

3 [Structured document storage and refined declarative and navigational access mechanisms in HyperStorM](#)

Klemens Böhm, Karl Aberer, Erich J. Neuhold, Xiaoya Yang

 November 1997 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 6 Issue 4

Full text available: pdf(184.18 KB)

 Additional Information: [full citation](#), [abstract](#), [index terms](#)

The combination of SGML and database technology allows to refine both declarative and navigational access mechanisms for structured document collection: with regard to declarative access, the user can formulate complex information needs without knowing a query language, the respective document type definition (DTD) or the underlying modelling. Navigational access is eased by hyperlink- rendition mechanisms, going beyond plain link-integrity checking. With our approach, the database-internal repres ...

Keywords: Document query languages, Navigation, OODBMSs, SGML

4 Design and development of data-intensive web sites: The Araneus approach

Paolo Merialdo, Paolo Atzeni, Giansalvatore Mecca

February 2003 **ACM Transactions on Internet Technology (TOIT)**, Volume 3 Issue 1

Full text available:  pdf(2.18 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Data-intensive Web sites are large sites based on a back-end database, with a fairly complex hypertext structure. The paper develops two main contributions: (a) a specific design methodology for data-intensive Web sites, composed of a set of steps and design transformations that lead from a conceptual specification of the domain of interest to the actual implementation of the site; (b) a tool called Homer, conceived to support the site design and implementation process, by allowing the ...

Keywords: Databases, Internet, WWW, World Wide Web, development

5 ESSQL: an enhanced semi-structured query language for composite document retrievals

Reo-Jo Yamashita, Tetsuro Ito, Hsiu-Hsen Yao

September 1998 **Proceedings of the 16th annual international conference on Computer documentation**

Full text available:  pdf(632.66 KB)

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6 WSQ/DSQ: a practical approach for combined querying of databases and the Web

Roy Goldman, Jennifer Widom

May 2000 **ACM SIGMOD Record , Proceedings of the 2000 ACM SIGMOD international conference on Management of data**, Volume 29 Issue 2

Full text available:  pdf(223.65 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present WSQ/DSQ (pronounced "wisk-disk"), a new approach for combining the query facilities of traditional databases with existing search engines on the Web. WSQ, for *Web-Supported (Database) Queries*, leverages results from Web searches to enhance SQL queries over a relational database. DSQ, for *Database-Supported (Web) Queries*, uses information stored in the database to enhance and explain Web searches. This paper focuses primarily on WSQ, describing a simple, lo ...

7 Document Databases: The extended XQL for querying and updating large XML databases

Raymond K. Wong

November 2001 **Proceedings of the 2001 ACM Symposium on Document engineering**

Full text available:  pdf(117.62 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

XQL has been argued as just a model for asking for specific sets of elements with very

limited query capability. This paper proposes several extensions of XQL to address the issues. The extensions include full-text indexed search, path variables, joins, session-based navigations, and updates. Effort has been spent to preserve the conciseness of the language syntax. Its corresponding query processor with optimization mechanism has been prototyped and available online. Finally, implementation issue ...

8 XML based adaptation of the composite approach for database integration

Brian Ensink, Kimberly Haveman, Mochan Shrestha, Todd Schavey


April 1999 **Proceedings of the 37th annual Southeast regional conference (CD-ROM)**

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9 Industrial sessions: middle-tier caching: Web caching for database applications with Oracle Web Cache

Jesse Anton, Lawrence Jacobs, Xiang Liu, Jordan Parker, Zheng Zeng, Tie Zhong

June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data**

Full text available:  pdf(601.17 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


We discuss several important issues specific to Web caching for content dynamically generated from database applications. We present the techniques employed by Oracle Web Cache to address these issues. They include: content disambiguation based on information in addition to the URL, transparent session management, partial-page caching for personalization, and broad-scope invalidation with performance assurance heuristics.

Keywords: caching, consistency, disambiguation, dynamic content, fragment, heuristics, invalidation, partial-page caching, performance, personalization, session, template

10 Complete answer aggregates for treelike databases: a novel approach to combine querying and navigation

Holger Meuss, Klaus U. Schulz

April 2001 **ACM Transactions on Information Systems (TOIS)**, Volume 19 Issue 2

Full text available:  pdf(356.60 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The use of markup languages like SGML, HTML or XML for encoding the structure of documents or linguistic data has led to many databases where entries are adequately described as trees. In this context querying formalisms are interesting that offer the possibility to refer both to textual content and logical structure. We consider models where the structure specified in a query is not only used as a filter, but also for selecting and presenting different parts of the data. If answers are formaliz ...

Keywords: SGML, XML, answer presentation, information retrieval, logic, query languages, semistructured data, structured documents, tree databases, tree matching

11 Model-driven development of Web applications: the AutoWeb system

Piero Fraternali, Paolo Paolini

October 2000 **ACM Transactions on Information Systems (TOIS)**, Volume 18 Issue 4

Full text available:  pdf(6.94 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes a methodology for the development of WWW applications and a tool

environment specifically tailored for the methodology. The methodology and the development environment are based upon models and techniques already used in the hypermedia, information systems, and software engineering fields, adapted and blended in an original mix. The foundation of the proposal is the conceptual design of WWW applications, using HDM-lite, a notation for the specification of structure, nav ...

Keywords: HTML, WWW, application, development, intranet, modeling

12 Database session 4: heterogeneous and distributed systems: On the complexity of schema inference from web pages in the presence of nullable data attributes

Guizhen Yang, I. V. Ramakrishnan, Michael Kifer

November 2003

Proceedings of the twelfth international conference on Information and knowledge management

Full text available:  pdf(179.78 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

An increasingly large number of Web pages are machine-generated by filling in templates with data stored in backend databases. These templates can be viewed as the implicit schemas of those Web pages. The ability to infer the implicit schema from a collection of Web pages is important for scalable data extraction, since the inferred schema can be used to automatically identify schema attributes that are "encoded" in Web pages. However, the task of inferring a "good" schema is complicated due to t ...

Keywords: data extraction, data mining, machine learning, schema inference, web mining, world wide web, wrapper induction

13 Proxy-based acceleration of dynamically generated content on the world wide web: An approach and implementation

Anindya Datta, Kaushik Dutta, Helen Thomas, Debra Vandermeer, Krithi Ramamritham

June 2004 **ACM Transactions on Database Systems (TODS)**, Volume 29 Issue 2

Full text available:  pdf(927.23 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

As Internet traffic continues to grow and websites become increasingly complex, performance and scalability are major issues for websites. Websites are increasingly relying on dynamic content generation applications to provide website visitors with dynamic, interactive, and personalized experiences. However, dynamic content generation comes at a cost---each request requires computation as well as communication across multiple components. To address these issues, various dynamic content caching ap ...


Keywords: Edge caching, caching dynamically generated content, fragment caching, implementation, proxy caching, world wide web

14 A platform for the description, distribution and analysis of genetic polymorphism data

Greg D. Tyrelle, Garry C. King

January 2003

Proceedings of the First Asia-Pacific bioinformatics conference on Bioinformatics 2003 - Volume 19

Full text available:  pdf(174.59 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


In this paper we suggest the requirements for an open platform designed for the description, distribution and analysis of genetic polymorphism data. This platform is discussed in terms of our implementation of a phenotypic prediction pipeline with general application to the understanding of genetic variation. The current state of polymorphism data storage and distribution has several recognised deficiencies. These include the lack of a shared data model and low overlap between databases. To move ...

Keywords: RDF, SNP, XML, database, distributed, web services

15 Document Formatting Systems: Survey, Concepts, and Issues

Richard Furuta, Jeffrey Scofield, Alan Shaw


September 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 3

Full text available:  pdf(5.36 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

16 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**


Full text available:  pdf(4.21 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

17 Automatic information extraction from large websites

Valter Crescenzi, Giansalvatore Mecca

September 2004 **Journal of the ACM (JACM)**, Volume 51 Issue 5

Full text available:  pdf(1.13 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Information extraction from websites is nowadays a relevant problem, usually performed by software modules called wrappers. A key requirement is that the wrapper generation process should be automated to the largest extent, in order to allow for large-scale extraction tasks even in presence of changes in the underlying sites. So far, however, only semi-automatic proposals have appeared in the literature. We present a novel approach to information extraction from websites, which reconciles recent ...

Keywords: Information extraction, relational model, wrappers

18 Declarative specification of Web sites with S

Mary Fernández, Daniela Florescu, Alon Levy, Dan Suciu

March 2000 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 9 Issue 1

Full text available:  pdf(188.65 KB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

S is a system for implementing *data-intensive* Web sites, which typically integrate information from multiple data sources and have complex structure. S's key idea is separating the management of a Web site's data, the specification of its content and structure, and the visual representation of its pages. S provides a declarative *query language* for specifying a site's content and structure, and a simple *template language* for specifying a site's HTML representation. This paper ...

Keywords: Declarative query languages, Web-site management

19 Implementing catalog clearinghouses with XML and XSL

Andrew V. Royappa

February 1999 **Proceedings of the 1999 ACM symposium on Applied computing**

Full text available:  pdf(753.90 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: SGML, XML, XSL, e-commerce

20 [Extending Java for high-level Web service construction](#)

Aske Simon Christensen, Anders Møller, Michael I. Schwartzbach

November 2003 **ACM Transactions on Programming Languages and Systems (TOPLAS)**,
Volume 25 Issue 6

Full text available:  pdf(947.02 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We incorporate innovations from the <bigwig> project into the Java language to provide high-level features for Web service programming. The resulting language, JWIG, contains an advanced session model and a flexible mechanism for dynamic construction of XML documents, in particular XHTML. To support program development we provide a suite of program analyses that at compile time verify for a given program that no runtime errors can occur while building documents or receiving form input, and ...

Keywords: Interactive Web services, XML, data-flow analysis

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1 **GENVIS-model-based generation of data visualizers***Bredenfeld, A.; Ihler, E.; Vogel, O.;*

Technology of Object-Oriented Languages, 2000. TOOLS 33. Proceedings. 33rd International Conference on , 5-8 June 2000

Pages:396 - 406

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2 **WebCon: design and modeling of database driven hypertext applications***Sommer, U.; Zoller, P.;*

System Sciences, 1999. HICSS-32. Proceedings of the 32nd Annual Hawaii International Conference on , Volume: Track6 , 5-8 Jan. 1999

Pages:8 pp.

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